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deuterium, mos, annealing

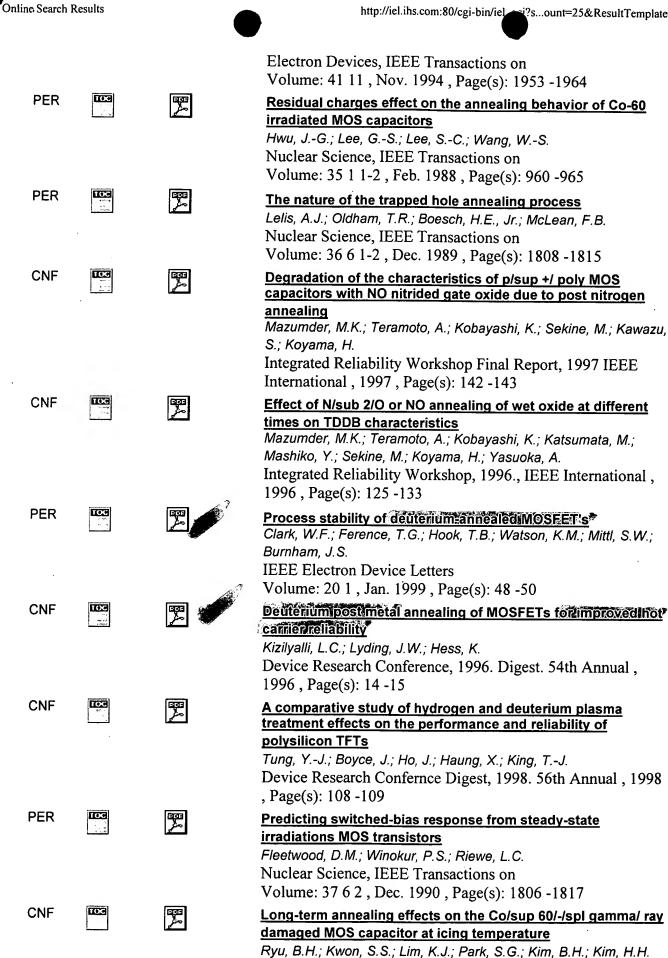
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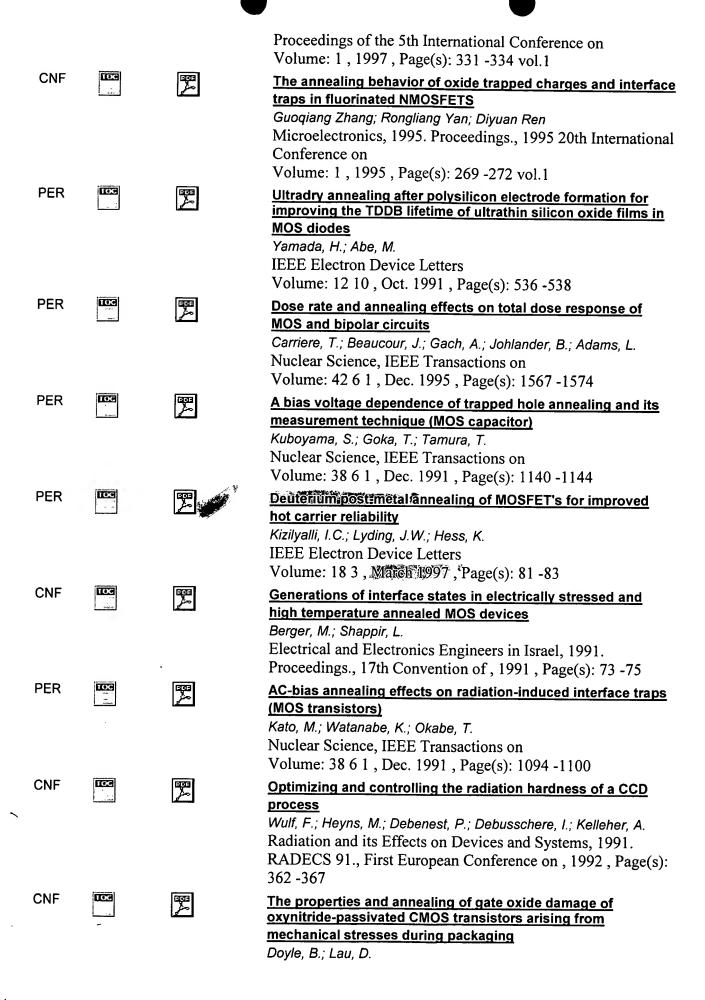
Your search matched 9004 of 545125 documents.

25 are presented on this page, sorted by Score in descending order.

DOC TYP	E VIEW ISSUE	VIEW FULL PAG	E VIEW CITATION
PER	100 - 7 - 7 - 7 - 7 - 7		Improvement of hot carrier reliability with deuterium anneals for manufacturing multilevel metal/dielectric MOS systems  Kizilyalli, I.C.; Abeln, G.C.; Chen, Z.; Lee, J.; Weber, G.; Kotzias,  B.; Chetlur, S.; Lyding, J.W.; Hess, K.  IEEE Electron Device Letters  Volume: 19 11, Nov. 1998, Page(s): 444-446
CNF	TOG		Multi-level metal CMOS manufacturing with deuterium for improved hot carrier reliability  Kizilyalli, I.C.; Weber, G.; Chen, Z.; Abeln, G.; Schonfield, M.; Kotzias, B.; Register, F.; Harris, E.; Sen, S.; Chetlur, S.; Patel, M.; Stirling, L.; Huang, R.; Massengale, A.; Roy, P.K.; Higashi, G.; Foley, E.; Lee, J.; Lyding, J.; Hess, K.  Electron Devices Meeting, 1998. IEDM '98 Technical Digest., International, 1998, Page(s): 935-938
PER	TEE		The time-dependence of post-irradiation interface trap build-up in deuterium-annealed oxides (n-MOSFET)  Saks, N.S.; Rendell, R.W.  Nuclear Science, IEEE Transactions on  Volume: 39 6 1-2, Dec. 1992, Page(s): 2220 -2229
PER	103 		Effects of minute impurities (H, OH, F) on SiO/sub 2//Si interface as investigated by nuclear resonant reaction and electron spin resonance  Ohji, Y.; Nishioka, Y.; Yokogawa, K.; Mukai, K.; Qiu, Q.; Arai, E.; Sugano, T.  Electron Devices, IEEE Transactions on  Volume: 37 7, July 1990, Page(s): 1635-1642
PER	1 <b>103</b> `		Giant isotope effect in hot electron degradation of metal oxide silicon devices  Hess, K.; Kizilyalli, I.C.; Lyding, J.W.  Electron Devices, IEEE Transactions on  Volume: 45 2, Feb. 1998, Page(s): 406 -416
PER	102	Z	1/f noise and radiation effects in MOS devices Fleetwood, D.M.; Meisenheimer, T.L.; Scofield, J.H.



Properties and Applications of Dielectric Materials, 1997...



Electron Devices Meeting, 1989. Technical Digest., International, 1989, Page(s): 91-94

PER





<u>High quality SiO/sub 2//Si interfaces of poly-crystalline silicon thin film transistors by annealing in wet atmosphere</u>

Sano, N.; Sekiya, M.; Hara, M.; Kohno, A.; Sameshima, T.

IEEE Electron Device Letters

Volume: 16 5, May 1995, Page(s): 157-160

# 1 <u>2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 [Next]</u>

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DOC TYPE	VIEW ISSUE TOC	VIEW FULL PAGE	<u>VIEW CITATION</u>
PER	103	<b>F</b>	Parametric yield optimisation of MOS VLSI circuits based on simulated annealing and its parallel implementation
			Conti, M.; Orcioni, S.; Turchetti, C.
			Circuits, Devices and Systems, IEE Proceedings- Volume: 141 5, Oct. 1994, Page(s): 387 -398
PER	163		Effects of irradiation temperature on MOS radiation response
			Shaneyfelt, M.R.; Schwank, J.R.; Fleetwood, D.M.; Winokur, P.S.
			Nuclear Science, IEEE Transactions on
555	-		Volume: 45 3 3, June 1998, Page(s): 1372 -1378
PER	IOG 	2	The role of border traps in MOS high-temperature postirradiation annealing response
			Fleetwood, D.M.; Shaneyfelt, M.R.; Riewe, L.C.; Winokur, P.S.;
			Reber, R.A., Jr.
			Nuclear Science, IEEE Transactions on
PER	100	<u> </u>	Volume: 40 6 1-2, Dec. 1993, Page(s): 1323 -1334  Reduction of oxide charge and interface-trap density in MOS
, Liv	- 12 - 15 - 15 - 15 - 15 - 15 - 15 - 15		capacitors with ITO gates
			Weijtens, C.H.L.
			Electron Devices, IEEE Transactions on
PER	FOE		Volume: 39 8, Aug. 1992, Page(s): 1889 -1894
FER		I	Leakage current reduction in chemical-vapor-deposited Ta/sub 2/O/sub 5/ films by rapid thermal annealing in N/sub 2/O
			Sun, S.C.; Chen, T.F.
			IEEE Electron Device Letters
חבם	literal .		Volume: 17 7, July 1996, Page(s): 355 -357
PER	To-		Effects of post-stress hydrogen annealing on MOS oxides after /sup 60/Co irradiation or Fowler-Nordheim injection
			Saks, N.S.; Klein, R.B.; Stahlbush, R.E.; Mrstik, B.J.; Rendell, R.W.
			Nuclear Science, IEEE Transactions on
055	:		Volume: 40 6 1-2, Dec. 1993, Page(s): 1341 -1349
PER	TOG	<b>A</b>	Thermal stability of deuterium in InAlN and InAlGaN
			Pearton, S.J.; Abernathy, C.R.; MacKenzie, J.D.; Wilson, R.G.; Ren,

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F.; Zavada, J.M. Electronics Letters

Volume: 31 4, 16 Feb. 1995, Page(s): 327 -329

Re-evaluation of the benefits of postoxidation annealing on sub-100 /spl Aring/ gate oxide quality

Ajuria, S.A.; Maiti, B.; Tobin, P.J.; Mele, T.C.

**IEEE Electron Device Letters** 

Volume: 17 6, June 1996, Page(s): 282 -284

Fast switched-bias annealing of radiation-induced oxide-trapped charge and its application for testing of radiation

effects in MOS structures

Pershenkov, V.S.; Belyakov, V.V.; Shalnov, A.V. Nuclear Science, IEEE Transactions on

Volume: 41 6 1, Dec. 1994, Page(s): 2593 -2599

Effect of rapid thermal reoxidation on the electrical properties

of rapid thermally nitrided thin-gate oxides

Joshi, A.B.; Lo, G.O.; Shih, D.K.; Kwong, D.-L.

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Volume: 39 4, April 1992, Page(s): 883 -892

The effects of hydrogen and deuterium incorporation on the electrical performance of a GaAs MESFET

Eng, D.C.; Culbertson, R.J.; MacWilliams, K.P.

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Page(s): 140 -143

Process-induced damage-a study of hydrogen and deuterium

<u>passivation</u>

Rangan, S.; Krishnan, S.; Ashok, S.

Plasma Process-Induced Damage, 1998 3rd International

Symposium on, 1998, Page(s): 213-216

Investigation of tunneling current through thin dielectrics

Evtukh, A.A.; Litovchenko, V.G.; Kizijak, A.Yu.

Nonvolatile Memory Technology Conference, 1998. 1998 Proceedings. Seventh Biennial IEEE, 1998, Page(s): 111

-114

Effects of irradiation temperature on MOS radiation response

Shaneyfelt, M.R.; Schwank, J.R.; Fleetwood, D.M.; Winokur, P.S. Radiation and Its Effects on Components and Systems, 1997. RADECS 97. Fourth European Conference on , 1998,

Page(s): 43 -49

On aspects of radiation damage in Tokamak diagnostics

DelMedico, S.; Barnouin, O.; Petra, M.; Miley, G.H.

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1995 IEEE International Conference on , 1995 , Page(s): 221

Plasma damage and photo-annealing effects of thin gate oxides

and oxynitrides during O/sub 2/ plasma exposure

Lai, K.; Kumar, K.; Chou, A.; Lee, J.C.

**IEEE Electron Device Letters** 

			Volume: 17 3, March 1996, Page(s): 82 -84
PER	ICE	<b>P</b>	Effects of nitric oxide annealing of thermally grown silicon dioxide characteristics
			Yao, ZQ.; Harrison, H.B.; Dimitrijev, S.; Yeow, Y.T.
			IEEE Electron Device Letters
	,		Volume: 16 8, Aug. 1995, Page(s): 345-347
PER	110.3		Effects of interface traps and border traps on MOS
			postirradiation annealing response Fleetwood, D.M.; Warren, W.L.; Schwank, J.R.; Winokur, P.S.; Shaneyfelt, M.R.; Riewe, L.C.
			Nuclear Science, IEEE Transactions on
			Volume: 42 6 1, Dec. 1995, Page(s): 1698 -1707
PER	HO.		Effects of wet oxidation/anneal on interface properties of
	<u></u>	( <u>F</u>	thermally oxidized SiO/sub 2//SiC MOS system and MOSFET's
			Yano, H.; Katafuchi, F.; Kimoto, T.; Matsunami, H. Electron Devices, IEEE Transactions on
			Volume: 46 3, March 1999, Page(s): 504 -510
PER	TOC		Comparison of the generation of interface states in MOS
		[ <del>]~</del> ]	structures due to /sup 60/Co and VUV irradiation accompanied
			with photoinjection of electrons Scharf, S.; Schmidt, M.; Wulf, F.; Braunig, D.
			Nuclear Science, IEEE Transactions on
			Volume: 41 3 1-2, June 1994, Page(s): 460 -465
PER	TOG		Three-point method of prediction of MOS device response in
		لگـــا	Space environments  Perspensor V.S.: Polyakov V.V.: Charanta S.V.:
			Pershenkov, V.S.; Belyakov, V.V.; Cherepko, S.V.; Shvetzov-Shilovsky, I.N.
			Nuclear Science, IEEE Transactions on
	,		Volume: 40 6 1-2, Dec. 1993, Page(s): 1714 -1720
PER	TOC	<b>F</b>	1/f noise in n- and p-channel MOS devices through irradiation and annealing
			Meisenheimer, T.L.; Fleetwood, D.M.; Shaneyfelt, M.R.; Riewe, L.C.
		4	Nuclear Science, IEEE Transactions on
PER	103	हिन् <u>न</u>	Volume: 38 6 1, Dec. 1991, Page(s): 1297-1303
1 211	AMA CONTRACTOR	ط	Radiation hardened micron and submicron MOSFETs containing fluorinated oxides
			Nishioka, Y.; Ohyu, K.; Ohji, Y.; Kato, M.; da Silva, E.F., Jr.; Ma, T.P.
			Nuclear Science, IEEE Transactions on
			Volume: 36 6 1-2, Dec. 1989, Page(s): 2116 -2123
PER	103		Effects of N distribution on charge trapping and TDDB
			<u>characteristics of N/sub 2/O annealed wet oxide</u> Mazumder, M.K.; Teramoto, A.; Komori, J.; Sekine, M.; Kawazu, S.;
			Mashiko, Y.  Flectron Devices IEEE Transactions on
			Electron Devices, IEEE Transactions on Volume: 46 6, June 1999, Page(s): 1121-1126
PER	(CC)	व्हिंग	Low-temperature furnace-grown reoxidized nitrided oxide gate
		متر	dielectrics as a barrier to boron penetration
			Fang, H.; Krisch, K.S.; Gross, B.J.; Sodini, C.G.; Chung, J.;



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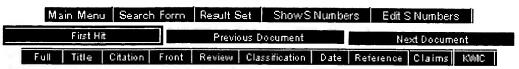
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Term:	euterium, MOS,	annealing			<b>△</b>	
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			<i>"</i>			
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JPAB	deuterium, MOS, heat?	53548	<u>L5</u>
JPAB	deuterium, MOS, annealing	66791	<u>L4</u>
JPAB	deuterium, MOS	47461	<u>L3</u>
JPAB	deuterium, semiconductor, annealing or heat?	306156	<u>L2</u>
JPAB	deuterium, semiconductor	284136	<u>L1</u>



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#### Document Number 18

PAT-NO: JP411087712A

DOCUMENT-IDENTIFIER: JP 11087712 A

DEUTERIUM SUBSTANCE FOR USE IN SEMICONDUCTOR TREATMENT

PUBN-DATE: March 30, 1999

INVENTOR-INFORMATION:

NAME

CLARK, WILLIAM F FERENCE, THOMAS G HOOK, TERENCE B MARTIN, DALE W

ASSIGNEE-INFORMATION:

COUNTRY

INTERNATL BUSINESS MACH CORP

N/A

APPL-NO: JP10192725 APPL-DATE: July 8, 1998

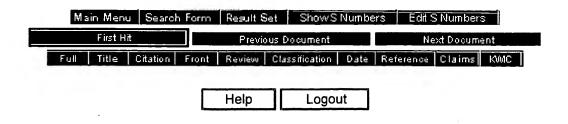
INT-CL (IPC): H01 L 29/78; H01 L 21/324

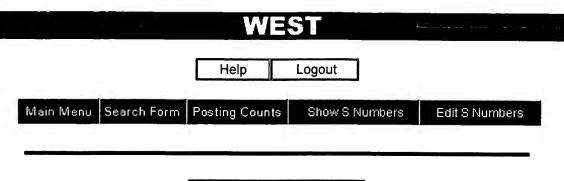
#### ABSTRACT:

PROBLEM TO BE SOLVED: To ensure strong resistance against that electron effect on the interface of silicon/silicon dioxide while suppressing damage of an element by substituting deuterium for hydrogen of a film formation reactive substance being used in production of semiconductor thereby producing a deuterium film substance at the time of film formation.

SOLUTION: A MOSFET element 100 comprises a single crystal silicon substrate 11, source-drain regions 12, 13, a gate oxide 14, a gate polysilicon 15, a gate sidewall spacer 16, a silicon nitride barrier wall 18, a passive oxide layer (e.g. SiO2) to be bonded, and a self-aligned silicate layer 17. These components of gate oxide 14, polysilicon 15, or the like, in the element contain hydrogen molecules emitted into the oxide during annealing process. The hydrogen atom is substituted by deuterium at the time of film formation to produce a deuterium film substance. Hydrogen migrates to the interface of silicon/silicon dioxide of these component of element to produce a deuterium substance thus exhibiting resistance against heat cycle.

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Search Results - Record(s) 11 through 20 of 66791 returned.

Document ID: JP 11088072 A

Entry 11 of 66791 File: JPAB Mar 30, 199

PUB-NO: JP411088072A

DOCUMENT-IDENTIFIER: JP 11088072 A

TITLE: MOS SEMICONDUCTOR INTEGRATED CIRCUIT

Full Title Citation Front Review Classification Date Reference Claims KMC Clip Img Image

12. Document ID: JP 11088052 A

Entry 12 of 66791

File: JPAB

Mar 30, 199

PUB-NO: JP411088052A

DOCUMENT-IDENTIFIER: JP 11088052 A

TITLE: TEMPERATURE COMPENSATING CRYSTAL OSCILLATOR

Full Title Citation Front Review Classification Date Reference Claims KWIC Clip Img Image

Document ID: JP 11087750 A

Entry 13 of 66791 File

File: JPAB Mar 30, 199

PUB-NO: JP411087750A

DOCUMENT-IDENTIFIER: JP 11087750 A

TITLE: MANUFACTURE OF IMPURITY SEMICONDUCTOR, P-TYPE SEMICONDUCTOR, N-TYPE

SEMICONDUCTOR, AND SEMICONDUCTOR DEVICE

Full Title Citation Front Review Classification Date Reference Claims KWC Clip Img Image

☐ 14. Document ID: JP 11087735 A

Entry 14 of 66791 File: JPAB Mar 30, 199

PUB-NO: JP411087735A

DOCUMENT-IDENTIFIER: JP 11087735 A

TITLE: SEMICONDUCTOR DEVICE AND ITS MANUFACTURE

Full Title Citation Front Review Classification Date Reference Claims KWC Clip Img Image

Document ID: JP 11087730 A

Entry 15 of 66791

File: JPAB

Mar 30, 199

PUB-NO: JP411087730A

DOCUMENT-IDENTIFIER: JP 11087730 A

TITLE: POLYCRYSTALLINE SEMICONDUCTOR THIN FILM, ITS FORMATION METHOD,

POLYCRYSTALLINE SEMICONDUCTOR TFT AND TFT SUBSTRATE

Full Title Citation Front Review Classification Date Reference Claims KMC Clip Img Image

Document ID: JP 11087727 A

Entry 16 of 66791 File: JPAB

Mar 30, 199

PUB-NO: JP411087727A

DOCUMENT-IDENTIFIER: JP 11087727 A

TITLE: SEMICONDUCTOR DEVICE

Full Title Citation Front Review Classification Date Reference Claims KWC Clip Img Image

Document ID: JP 11087720 A

Entry 17 of 66791 File: JPAB Mar 30, 199

PUB-NO: JP411087720A

DOCUMENT-IDENTIFIER: JP 11087720 A

TITLE: SEMICONDUCTOR DEVICE AND LIQUID CRYSTAL DISPLAY DEVICE

Full Title Citation Front Review Classification Date Reference Claims KWC Clip Img Image

Document ID: JP 11087712 A

Entry 18 of 66791 File: JPAB Mar 30, 199

PUB-NO: JP411087712A

DOCUMENT-IDENTIFIER: JP 11087712 A

TITLE: DEUTERIUM SUBSTANCE FOR USE IN SEMICONDUCTOR TREATMENT

Full Title Citation Front Review Classification Date Reference Claims KWC Clip Img Image

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19.

Document ID: JP 11087711 A

Entry 19 of 66791

File: JPAB

Mar 30, 199

PUB-NO: JP411087711A

DOCUMENT-IDENTIFIER: JP 11087711 A TITLE: FABRICATION OF TRANSISTOR

Full Title Citation Front Review Classification Date Reference Claims KMC ClipImg Image

Entry 20 of 66791

Document ID: JP 11087704 A

File: JPAB Mar 30, 199

PUB-NO: JP411087704A

DOCUMENT-IDENTIFIER: JP 11087704 A

20.

TITLE: SEMICONDUCTOR DEVICE AND FABRICATION THEREOF

Full Title Citation Front Review Classification Date Reference Claims KMC Clip Img Image

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deuterium, MOS, annealing	66791	

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Search Results - Record(s) 191 through 200 of 66791 returned.

Document ID: JP 11071137 A

Entry 191 of 66791 File: JPAB Mar 16, 199

PUB-NO: JP411071137A

DOCUMENT-IDENTIFIER: JP 11071137 A

TITLE: PRODUCTION OF PHOTOCATALYST THIN FILM SUPPORTING NOBLE METAL FINE

PARTICLE

Full Title Citation Front Review Classification Date Reference Claims KWIC Image

Document ID: JP 11070190 A

Entry 192 of 66791 File: JPAB Mar 16, 195

PUB-NO: JP411070190A

DOCUMENT-IDENTIFIER: JP 11070190 A

TITLE: VACUUM SUSPENSION DRIVING TYPE COATING METHOD OF GOLF CLUB HEAD

Full Title Citation Front Review Classification Date Reference Claims KMC ClipImg Image

Document ID: JP 11069976 A

Entry 193 of 66791 File: JPAB Mar 16, 195

PUB-NO: JP411069976A

DOCUMENT-IDENTIFIER: JP 11069976 A

TITLE: COMPOSITION FOR TREATMENT OF MALIGNANT TUMOR

Full Title Citation Front Review Classification Date Reference Claims KNAC Image

Document ID: JP 11069817 A

Entry 194 of 66791 File: JPAB Mar 9, 1999

PUB-NO: JP411069817A

DOCUMENT-IDENTIFIER: JP 11069817 A

TITLE: SWITCHING ELEMENT DRIVER FOR DRIVE OF TRANSFORMER

Full Title Citation Front Review Classification Date Reference Claims KWIC Clip Img Image

**□** 195.

Document ID: JP 11069611 A

Entry 195 of 66791

File: JPAB

Mar 9, 1999

PUB-NO: JP411069611A

DOCUMENT-IDENTIFIER: JP 11069611 A

TITLE: ELECTRICALLY-DRIVEN MOTOR DRIVE-TYPE STEERING APPARATUS

Full Title Citation Front Review Classification Date Reference Claims KWIC Clip Img Image

□ 196.

Document ID: JP 11068938 A

Entry 196 of 66791

File: JPAB

Mar 9, 1999

PUB-NO: JP411068938A

DOCUMENT-IDENTIFIER: JP 11068938 A TITLE: TMN AGENT GENERATING SYSTEM

Full Title Citation Front Review Classification Date Reference Claims KWIC Clip Img Image

□ 197.

Document ID: JP 11068695 A

Entry 197 of 66791

File: JPAB

Mar 9, 1999

PUB-NO: JP411068695A

DOCUMENT-IDENTIFIER: JP 11068695 A

TITLE: IN-PHASE/ORTHOGONAL FRAME ALTERNATE ARRANGEMENT TYPE DATA COMMUNICATION

SYSTEM

Full Title Citation Front Review Classification Date Reference Claims KWIC ClipImg Image

□ 198.

Document ID: JP 11068560 A

Entry 198 of 66791

File: JPAB

Mar 9, 1999

PUB-NO: JP411068560A

DOCUMENT-IDENTIFIER: JP 11068560 A

TITLE: PLL FREQUENCY SYNTHESIZER AND CHARGE PUMP CIRCUIT

Full Title Citation Front Review Classification Date Reference Claims KWIC Clip Img Image

□ 199.

Document ID: JP 11068554 A

Entry 199 of 66791

File: JPAB

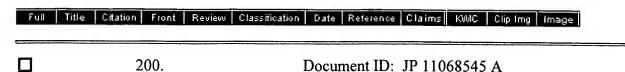
Mar 9, 1999

PUB-NO: JP411068554A



DOCUMENT-IDENTIFIER: JP 11068554 A

TITLE: COUNTER AND PLL CIRCUIT



Entry 200 of 66791

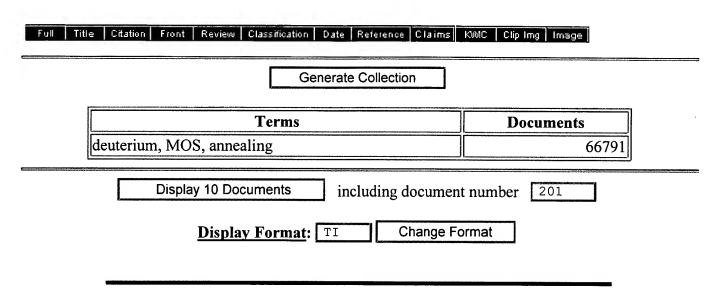
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Mar 9, 1999

PUB-NO: JP411068545A

DOCUMENT-IDENTIFIER: JP 11068545 A

TITLE: SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND CONTROL METHOD THEREFOR



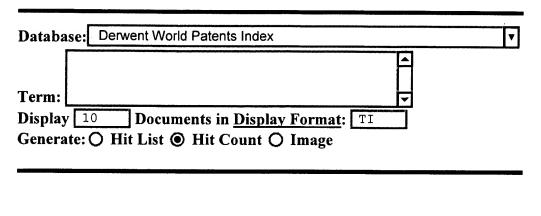
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JPAB,EPAB,DWPI	deuterium, mos	131285	<u>L6</u>
JPAB	deuterium, MOS, heat?	53548	<u>L5</u>
JPAB	deuterium, MOS, annealing	66791	<u>L4</u>
JPAB	deuterium, MOS	47461	<u>L3</u>
JPAB	deuterium, semiconductor, annealing or heat?	306156	<u>L2</u>
JPAB	deuterium, semiconductor	284136	L1

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Search Results - Record(s) 371 through 380 of 131285 returned.

371.

Document ID: US 5606265 A

Entry 371 of 131285

File: EPAB

Feb 25, 199

PAT-NO: US005606265A

DOCUMENT-IDENTIFIER: US 5606265 A

TITLE: Semiconductor integrated circuits with power reduction mechanism

Full Title Citation Front Review Classification Date Reference Claims KMC Image

372.

Document ID: US 5606197 A

Entry 372 of 131285

File: EPAB

Feb 25, 199

PAT-NO: US005606197A

DOCUMENT-IDENTIFIER: US 5606197 A

TITLE: High capacitance capacitor in an integrated function block or an

integrated circuit

Full Title Citation Front Review Classification Date Reference Claims KWC Image

373.

Document ID: US 5605086 A

Entry 373 of 131285

File: EPAB

Feb 25, 199

PAT-NO: US005605086A

DOCUMENT-IDENTIFIER: US 5605086 A

TITLE: Compound mitre saw

Full Title Citation Front Review Classification Date Reference Claims KWIC Image

374.

Document ID: WO 9706564 A1

Entry 374 of 131285

File: EPAB

Feb 20, 199

PAT-NO: WO009706564A1

WO 9706564 A1

TITLE: SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME

Full Title Citation Front Review Classification Date Reference Claims KMC Image

375.

Document ID: DE 19530518 A1

Entry 375 of 131285

DOCUMENT-IDENTIFIER:

File: EPAB

Feb 20, 199

PAT-NO: DE019530518A1

DOCUMENT-IDENTIFIER: DE 19530518 A1 TITLE: Metal carbonitride hard coating

Full Title Citation Front Review Classification Date Reference Claims KMC Image

376.

Document ID: DE 19530517 A1

Entry 376 of 131285

File: EPAB

Feb 20, 199

PAT-NO: DE019530517A1

DOCUMENT-IDENTIFIER: DE 19530517 A1 TITLE: Metal carbonitride hard coating

Full Title Citation Front Review Classification Date Reference Claims KMC Image

377.

Document ID: DE 19530454 A1

Entry 377 of 131285

File: EPAB

Feb 20, 199

PAT-NO: DE019530454A1

DOCUMENT-IDENTIFIER: DE 19530454 A1

TITLE: Economical continuous oxidative dehydrogenation of propane to propene in

high yield

Full Title Citation Front Review Classification Date Reference Claims KWC Image

378.

Document ID: EP 758684 A1

Entry 378 of 131285

File: EPAB

Feb 19, 199

PAT-NO: EP000758684A1

DOCUMENT-IDENTIFIER: EP 758684 A1

TITLE: Nickel-based superalloys with good stability at high temperatures

Full Title Citation Front Review Classification Date Reference Claims KWC Image

379.

Document ID: US 5604417 A

Entry 379 of 131285

File: EPAB

Feb 18, 199

PAT-NO: US005604417A

DOCUMENT-IDENTIFIER: US 5604417 A

TITLE: Semiconductor integrated circuit device

Full Title Citation Front Review Classification Date Reference Claims KMC Image

380.

Document ID: US 5604140 A

Entry 380 of 131285

File: EPAB

Feb 18, 199

PAT-NO: US005604140A

DOCUMENT-IDENTIFIER: US 5604140 A

TITLE: Method for forming fine titanium nitride film and method for fabricating

semiconductor element using the same



Terms	Documents
deuterium, mos	131285

Display 10 Documents

including document number 381

Display Format: TI

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3511 DEUTERIUM 33850 ANNEALING 850865 HEAT?

894 DEUTERIUM (1P) (ANNEALING OR HEAT? )

166753 SEMICONDUCTOR

L3 83 DEUTERIUM (1P) (ANNEALING OR HEAT? ) AND SEMICONDUCTOR

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- 1. 5,910,842, Jun. 8, 1999, Focused beam spectroscopic ellipsometry method and system; Timothy R. Piwonka-Corle, et al., 356/369 [IMAGE AVAILABLE]
- 2. 5,909,627, Jun. 1, 1999, Process for production of thin layers of semiconductor material; Richard Egloff, 438/406, 522, 526, 530 [IMAGE AVAILABLE]
- 3. 5,909,048, Jun. 1, 1999, Micro-machining minute hollow using native oxide membrane; Rinji Sugino, 257/522, 394, 414, 417, 467, 622; 313/325 [IMAGE AVAILABLE]
- 4. 5,885,896, Mar. 23, 1999, Using implants to lower anneal temperatures; Randhir P. S. Thakur, et al., 438/649, 630, 659 [IMAGE AVAILABLE]
- 5. 5,877,070, Mar. 2, 1999, Method for the transfer of thin layers of monocrystalline material to a desirable substrate; Ulrich M. Goesele, et al., 438/458; 117/915; 438/406 [IMAGE AVAILABLE]
- 6. 5,872,387, Feb. 16, 1999, Deuterium-treated **semiconductor** devices; Joseph W. Lyding, et al., 257/607, 629; 438/38 [IMAGE AVAILABLE]
- 7. 5,840,110, Nov. 24, 1998, Integrated circuits having mixed layered superlattice materials and precursor solutions for use in a process of making the same; Masamichi Azuma, et al., 106/287.18, 287.19 [IMAGE AVAILABLE]
- 8. 5,830,575, Nov. 3, 1998, Memory device using movement of protons; William L. Warren, et al., 428/404, 411.1, 425.5, 688 [IMAGE AVAILABLE]
- 9. 5,811,944, Sep. 22, 1998, Enhanced dielectric-wall linear accelerator; Stephen E. Sampayan, et al., 315/505, 500, 507 [IMAGE AVAILABLE]
- 10. 5,804,702, Sep. 8, 1998, Process for reducing interfering signals in optical measurements of water vapor; David Christian Hovde, et al., 73/24.04; 250/343 [IMAGE AVAILABLE]
- 11. 5,803,961, Sep. 8, 1998, Integrated circuits having mixed layered superlattice materials and precursor solutions for use in a process of making the same; Masamichi Azuma, et al., 106/287.18, 287.19 [IMAGE AVAILABLE]
- 12. 5,767,200, Jun. 16, 1998, Optical resin materials with distributed refractive index; Yasuhiro Koike, 525/265; 264/1.1, 1.24, 1.29; 385/124, 141; 525/277, 306, 932 [IMAGE AVAILABLE]

- 13. 5,763,514, Jun. 9, 98, Process for producting optimaterials with distributed refractive index; Yasuhiro Koike, 525/265, 277, 306, 932 [IMAGE AVAILABLE]
- 14. 5,760,366, Jun. 2, 1998, Thin film forming apparatus using laser and magnetic field; Kenyu Haruta, et al., 219/121.68 [IMAGE AVAILABLE]
- 15. 5,745,536, Apr. 28, 1998, Secondary electron ion source neutron generator; John P. Brainard, et al., 376/114, 108 [IMAGE AVAILABLE]
- 16. 5,729,580, Mar. 17, 1998, Hydrogen ion array acceleration generator and method; Gregory L. Millspaugh, 376/114, 115, 146 [IMAGE AVAILABLE]
- 17. 5,713,979, Feb. 3, 1998, Heat treatment facility for synthetic vitreous silica bodies; Robert Nicholson, et al., 65/424, 374.13, 374.15, 426, 427, 519, 530, 540 [IMAGE AVAILABLE]
- 18. 5,711,998, Jan. 27, 1998, Method of polycrystalline silicon hydrogenation; Paul Kevin Shufflebotham, 427/535, 527; 438/162, 475, 798 [IMAGE AVAILABLE]
- 19. 5,699,035, Dec. 16, 1997, ZnO thin-film varistors and method of making the same; Takeshi Ito, et al., 338/21, 20 [IMAGE AVAILABLE]
- 20. 5,675,606, Oct. 7, 1997, Solenoid and monocusp ion source; John Paul Brainard, et al., 315/111.71, 111.81 [IMAGE AVAILABLE]
- 21. 5,672,672, Sep. 30, 1997, Polymeric optical mixtures, polymeric optical materials and polymeric optical waveguide; Michiyuki Amano, et al., 528/16; 385/143, 145; 522/99, 172; 528/17 [IMAGE AVAILABLE]
- 22. 5,662,814, Sep. 2, 1997, Micro-machining minute hollow using native oxide membrane; Rinji Sugino, 216/2, 39, 56, 60; 438/701, 708, 719 [IMAGE AVAILABLE]
- 23. 5,622,567, Apr. 22, 1997, Thin film forming apparatus using laser; Kazuyoshi Kojima, et al., 118/726; 427/596; 505/732 [IMAGE AVAILABLE]
- 24. 5,608,526, Mar. 4, 1997, Focused beam spectroscopic ellipsometry method and system; Timothy R. Piwonka-Corle, et al., 356/369, 73 [IMAGE AVAILABLE]
- 25. 5,581,350, Dec. 3, 1996, Method and system for calibrating an ellipsometer; Xing Chen, et al., 356/369 [IMAGE AVAILABLE]
- 26. 5,541,247, Jul. 30, 1996, Optical resin materials with distributed refractive index, process for producing the materials, and optical conductors using the materials; Yasuhiro Koike, 524/285; 264/1.1, 1.24, 1.29; 385/124, 141; 524/287, 315, 317, 319; 525/268, 277, 306, 932 [IMAGE AVAILABLE]
- 27. 5,530,319, Jun. 25, 1996, Power supply circuit for a discharge lamp and use of and method of operating the same; Volker Adam, et al., 315/106, 94, 107, 224, 306, 308, DIG.7 [IMAGE AVAILABLE]
- 28. 5,510,277, Apr. 23, 1996, Surface treatment for silicon substrates; John E. Cunningham, et al., 438/707; 134/1.3; 438/974 [IMAGE AVAILABLE]
- 29. 5,506,857, Apr. 9, 1996, **Semiconductor** Laser Pumped molecular gas lasers; Richard A. Meinzer, 372/55, 101 [IMAGE AVAILABLE]
- 30. 5,486,701, Jan. 23, 1996, Method and apparatus for measuring reflectance in two wavelength bands to enable determination of thin film thickness; Adam E. Norton, et al., 250/372; 356/381, 382 [IMAGE AVAILABLE]

- 31. 5,382,347, Jan. 17 995, Protective coatings for multiple parts to be used at high temperatures; Joseph Yahalom, 205/50, 171, 175, 224, 229, 917 [IMAGE AVAILABLE]
- 32. 5,381,429, Jan. 10, 1995, Laser device with wavelength converter using organic ionic crystal; Hisashi Minemoto, et al., 372/21; 359/325 [IMAGE AVAILABLE]
- 33. 5,379,315, Jan. 3, 1995, **Semiconductor** laser pumped multiple molecular gas lasers; Richard A. Meinzer, 372/55, 101 [IMAGE AVAILABLE]
- 34. 5,371,257, Dec. 6, 1994, Preparation of diisopropyl stibines and use thereof; Robert Gedridge, Jr., 556/70; 427/252 [IMAGE AVAILABLE]
- 35. 5,283,303, Feb. 1, 1994, Transplant thermoplastic molding compound made of 2,3-difluoroacrylic acid esters; Werner Groh, et al., 526/245 [IMAGE AVAILABLE]
- 36. 5,264,724, Nov. 23, 1993, Silicon nitride for application as the gate dielectric in MOS devices; William D. Brown, et al., 257/347, 314, 410, 649; 427/164, 574, 579; 438/792, 910 [IMAGE AVAILABLE]
- 37. 5,248,348, Sep. 28, 1993, Amorphous silicon solar cell and method for manufacturing the same; Kenji Miyachi, et al., 136/258; 438/96, 482 [IMAGE AVAILABLE]
- 38. 5,225,378, Jul. 6, 1993, Method of forming a phosphorus doped silicon film; Harunori Ushikawa, 438/488; 118/620, 715; 427/587, 588; 438/925 [IMAGE AVAILABLE]
- 39. 5,198,181, Mar. 30, 1993, Stabilizing plasma in thermonuclear fusion reactions using resonant low level electromagnetic fields; Jerry I. Jacobson, 376/132 [IMAGE AVAILABLE]
- 40. 5,194,398, Mar. 16, 1993, **Semiconductor** film and process for its production; Kenji Miyachi, et al., 438/482; 136/258; 204/192.25, 192.3; 438/96, 798, 909 [IMAGE AVAILABLE]
- 41. 5,175,790, Dec. 29, 1992, Transparent thermoplastic molding compound made of 2,3-difluoroacrylic acid esters; Werner Groh, et al., 385/143, 145; 526/245 [IMAGE AVAILABLE]
- 42. 5,158,663, Oct. 27, 1992, Protective coatings for metal parts to be used at high temperatures; Joseph Yahalom, 205/50, 171, 175, 224, 229, 917 [IMAGE AVAILABLE]
- 43. 5,093,888, Mar. 3, 1992, Optical transmitting system, optical members and polymer for same, and usage of same; Yoshitaka Takezawa, et al., 385/141, 144 [IMAGE AVAILABLE]
- 44. 5,087,815, Feb. 11, 1992, High resolution mass spectrometry of recoiled ions for isotopic and trace elemental analysis; J. Albert Schultz, et al., 250/309, 287, 307 [IMAGE AVAILABLE]
- 45. 5,059,551, Oct. 22, 1991, Process for neutralizing acceptor atoms in p-type InP; Jacques Chevallier, et al., 438/507, 509, 796, 919, 925 [IMAGE AVAILABLE]
- 46. 5,051,582, Sep. 24, 1991, Method for the production of size, structure and composition of specific-cluster ions; John T. Bahns, et al., 250/283, 423R; 376/106, 107, 120, 127 [IMAGE AVAILABLE]
- 47. 5,024,724, Jun. 18, 1991, Dry-etching method; Yutaka Hirono, et al., 216/13, 62; 438/694, 705 [IMAGE AVAILABLE]

- 48. 5,010,517, Apr. 23 1991, Semiconductor optical apparatus; Masahito Migita, et al 65/114; 257/21 [IMAGE AVAILABL
- 49. 4,979,467, Dec. 25, 1990, Thin film formation apparatus; Hideki Kamaji, et al., 118/723E; 427/577, 578, 579 [IMAGE AVAILABLE]
- 50. 4,962,065, Oct. 9, 1990, Annealing process to stabilize PECVD silicon nitride for application as the gate dielectric in MOS devices; William D. Brown, et al., 438/792; 148/DIG.114; 438/910 [IMAGE AVAILABLE]
- 51. 4,919,077, Apr. 24, 1990, **Semiconductor** producing apparatus; Masao Oda, et al., 118/723MP, 722, 723ME, 725; 427/572, 582, 586, 591 [IMAGE AVAILABLE]
- 52. 4,910,436, Mar. 20, 1990, Wide area VUV lamp with grids and purging jets; George J. Collins, et al., 315/111.81; 118/50.1; 204/164; 313/231.61, 362.1; 315/111.21 [IMAGE AVAILABLE]
- 53. 4,880,978, Nov. 14, 1989, Resonant radiation protector; David B. Cohn, et al., 250/332 [IMAGE AVAILABLE]
- 54. 4,837,793, Jun. 6, 1989, Mass limited target; Robert D. Frankel, et al., 378/34, 119, 143 [IMAGE AVAILABLE]

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- 55. 4,791,299, Dec. 13, 1988, Infrared ray sensing device; Hiroshi Naito, et al., 250/352, 341.8 [IMAGE AVAILABLE]
- 56. 4,742,276, May 3, 1988, Regulated deuterium arc supply system; Yeegee Ku, 315/106, 94, 175, 205, 224, 308 [IMAGE AVAILABLE]
- 57. 4,661,836, Apr. 28, 1987, Fabricating integrated circuits; Joseph Mun, 257/712, 664, 684, 713, 728 [IMAGE AVAILABLE]
- 58. 4,649,059, Mar. 10, 1987, Photoionization technique for growth of metallic films; James G. Eden, et al., 427/531; 117/102; 118/50.1, 723R; 427/523, 530, 561; 438/680, 935 [IMAGE AVAILABLE]
- 59. H 235, Mar. 3, 1987, In-situ determination of energy species yields of intense particle beams; Henry W. Kugel, et al., 376/143, 130 [IMAGE AVAILABLE]
- 60. 4,620,211, Oct. 28, 1986, Method of reducing the current gain of an inherent bipolar transistor in an insulated-gate **semiconductor** device and resulting devices; Bantval J. Baliga, et al., 257/142 [IMAGE AVAILABLE]
- 61. 4,505,947, Mar. 19, 1985, Method for the deposition of coatings upon substrates utilizing a high pressure, non-local thermal equilibrium arc plasma; Vladimir Vukanovic, et al., 427/452; 204/192.1, 298.41; 219/121.47; 376/916; 427/455, 456, 561, 568 [IMAGE AVAILABLE]
- 62. 4,503,328, Mar. 5, 1985, Evaluation of the interaction with radiant energy of substances traversed by a borehole; Jacob Neufeld, 250/262, 269.7 [IMAGE AVAILABLE]
- 63. 4,417,180, Nov. 22, 1983, Lamp firing apparatus; Morteza M. Chamran, et al., 315/175, 171, 173, 205, 360 [IMAGE AVAILABLE]
- 64. 4,404,163, Sep. 13, 1983, Neutron generator tube ion source control system; James R. Bridges, 376/119; 976/DIG.404 [IMAGE AVAILABLE]
- 65. 4,403,146, Sep. 6, 1983, Evaluation of the interaction with radiant energy of substances traversed by a bore hole; Jacob Neufeld, 250/262, 269.3 [IMAGE AVAILABLE]
- 66. 4,401,618, Aug. 30, 1983, Particle-induced thermonuclear fusion;

- 67. 4,395,481, Jul. 26, 1983, Method for the manufacture of resist structures; Siegfried Birkle, et al., 430/326, 5 [IMAGE AVAILABLE]
- 68. 4,357,403, Nov. 2, 1982, Photoconductive plate for printing and a method for the preparation of a printing plate by heating; Fumio Shimada, et al., 430/18; 101/467, 470; 427/372.2; 430/17, 49, 97, 330 [IMAGE AVAILABLE]
- 69. 4,354,999, Oct. 19, 1982, Plasma confinement; Robert V. Priest, 376/142, 122, 128 [IMAGE AVAILABLE]
- 70. 4,326,129, Apr. 20, 1982, Evaluation of the interaction with radiant energy of substances traversed by a bore hole; Jacob Neufeld, 250/262, 269.1 [IMAGE AVAILABLE]
- 71. RE 30,898, Apr. 6, 1982, Infrared laser system; Cyrus D. Cantrell, et al., 359/327; 250/423P; 359/334; 372/4 [IMAGE AVAILABLE]
- 72. 4,292,600, Sep. 29, 1981, Pulsed gas laser emitting high-power beam of short wavelength; Arnold Neracher, 372/84, 38, 86, 87 [IMAGE AVAILABLE]
- 73. 4,286,049, Aug. 25, 1981, Method of forming a negative resist pattern; Saburo Imamura, et al., 430/296, 270.1, 287.1, 325 [IMAGE AVAILABLE]
- 74. 4,282,196, Aug. 4, 1981, Method of preparing optical fibers of silica; Thomas Y. Kometani, et al., 423/337; 65/901; 423/341 [IMAGE AVAILABLE]
- 75. 4,278,754, Jul. 14, 1981, Resists and method of manufacturing semiconductor elements by using the same; Yoshio Yamashita, et al., 430/323, 280.1, 281.1, 296, 297, 313, 317, 318, 326, 328, 330, 942 [IMAGE AVAILABLE]
- 76. 4,267,258, May 12, 1981, Negative type deep ultraviolet resist; Yasuhiro Yoneda, et al., 430/270.1, 286.1, 288.1, 302, 306, 325; 522/153; 526/323 [IMAGE AVAILABLE]
- 77. 4,229,079, Oct. 21, 1980, Electro-optic modulator with improved acousto-optic suppression, heat transfer and mechanical support; Robert J. Wayne, et al., 359/245; 372/12, 13, 26 [IMAGE AVAILABLE]
- 78. 4,124,524, Nov. 7, 1978, Neodymium ultraphosphates and process for their preparation; Hans-Gunter Danielmeyer, et al., 252/647, 301.4P; 372/40, 41, 68; 423/305 [IMAGE AVAILABLE]
- 79. 4,076,420, Feb. 28, 1978, Apparatus for investigating fast chemical reactions by optical detection; Leo C. M. De Maeyer, et al., 356/73, 246, 313, 317, 320, 338, 364; 422/82.05, 82.08, 82.09 [IMAGE AVAILABLE]
- 80. 4,061,921, Dec. 6, 1977, Infrared laser system; Cyrus D. Cantrell, et al., 250/423P; 204/157.22; 359/327; 372/21, 23, 55 [IMAGE AVAILABLE]
- 81. 4,035,656, Jul. 12, 1977, Method and apparatus for use in approaching thermonuclear temperatures using turbulent thermal insulation; Tihiro Ohkawa, 376/144 [IMAGE AVAILABLE]
- 82. 4,024,410, May 17, 1977, Alternating current energy converter; Reinhard Dahlberg, 307/2; 324/119; 376/103, 131, 143, 144, 147, 320; 976/DIG.410 [IMAGE AVAILABLE]
- 83. 3,620,844, Nov. 16, 1971, SYSTEM FOR THE ACTIVATION OF HYDROGEN; Ewald Wicke, et al., 429/44; 96/10; 204/290R; 423/658.2 [IMAGE AVAILABLE]